

In the Claims:

Please add the following new claims:

①² 47. (New) An inductive coil for an electromotive device, comprising:

a pair of concentric conductive sheet metal winding portions each comprising a plurality of axially extending conductive bands each being separated from an adjacent conductive band by a space, each of the conductive bands of one of the winding portions being coupled to one of the conductive bands of the other winding portion, the winding portions being encapsulated in a non-layered material that extends from a space between two adjacent conductive bands of said one of the winding portions to a space between two adjacent bands of the other winding portion.

48. (New) The inductive coil of claim 47 where the winding portions are encapsulated in a potting material.

49. (New) The inductive coil of claim 48 wherein the potting material comprises polyimide.

50. (New) The inductive coil of claim 47 further comprising an insulator disposed between the winding portions.

51. (New) The inductive coil of claim 50 wherein the insulator comprises a non-conductive filament wrapped around an outer surface of said one of the winding portions.

*D2
cont.*

52. (New) The inductive coil of claim 51 wherein the non-conductive filament comprises glass fiber.

53. (New) The inductive coil of claim 51 where the non-conductive filament comprises a thickness between 0.00030-0.00075 inch.

54. (New) The inductive coil of claim 47 wherein each of the spaces separating the conductive bands is less than 1.5 time the thickness of each of the conductive bands.

55. (New) The inductive coil of claim 47 wherein each of the winding portions comprises precision machined and rolled copper.

56. (New) The inductive coil of claim 47 wherein each of the conductive bands comprises a tensile strength greater than 40,000 psi.

57. (New) The inductive coil of claim 47 wherein each of the conductive bands comprises a yield strength greater than 30,000 psi.

58. (New) The inductive coil of claim 47 wherein each of the conductive bands comprises a percent elongation less than 20%.

59. (New) The inductive coil of claim 47 wherein each of the conductive bands comprises a hardness greater than a Brunell number of 70.

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amcl id.*

60. (New) The inductive coil of claim 47 further comprising an electrically insulated metal flywheel coupled to the interior portion of the induction coil.

61. (New) The inductive coil of claim 60 wherein the electrical insulation comprises an anodized outer surface of the flywheel, the anodized outer surface being in contact with the interior portion of the induction coil.

62. (New) The inductive coil of claim 61 where in the metal comprises aluminum.

63. (New) The induction coil of claim 60 wherein the metal comprises aluminum.

REMARKS

Entry of the foregoing amendment and timely allowance of this application are respectfully requested.

Respectfully submitted,

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Craig A. Gelfound
Craig A. Gelfound
Registration No. 41,032
Attorney for Applicant

MCDERMOTT, WILL & EMERY
2049 Century Park East, 34th Floor
Los Angeles, California 90067
Telephone: (310) 788-1533
Facsimile: (310) 277-4730